

[BRIDGE PROTOCOL DATA UNIT (BPDU) AUTHENTICATION MECHANISM USING BRIDGE ADDRESS PERMIT LIST (BAPL)]

Abstract

In a network, the spanning tree protocol computes a loop-free and fully connected active bridged network topology. A Bridge Address Permit List (BAPL) can be a simple Bridge Protocol Data Unit (BPDU) authentication mechanism to prevent the active bridge network topology from being disturbed by mis-configurations or illegal BPDUs perhaps from ill intentions. A BAPL is a simple but effective BPDU authentication method, using permit list to filter unauthorized BPDUs.